

IN THE CLAIMS:

Claims 1-36, 39, and 41-45 (Canceled)

Please amend the following as follows:

37. (Currently amended) An isolated and substantially pure N-methyl-D-aspartate receptor subunit ~~receptor~~ comprising an amino acid sequence as set forth in SEQ ID NO:56, wherein said amino acid sequence is encoded by a DNA sequence[,] comprising a sequence of nucleotides ~~that encode an human N-methyl-D-aspartate receptor subtype, wherein said sequence of nucleotides is~~ as set forth in SEQ ID NO. 55.

38. (Currently amended) A substantially pure human N-methyl-D-aspartate receptor ~~subtype~~ subunit comprising the sequence of amino acids [as] set forth in SEQ ID NO: 56.

40. (Currently amended) A method for detecting a binding partner for the receptor of claim [37] 38 in a sample suspected of containing the binding partner, comprising:

- (i) contacting the sample with the receptor under conditions favoring binding of the receptor to the binding partner;
- (ii) determining presence of the binding partner in the sample by detecting binding of the receptor to the binding partner.